AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111 Serial Number: 10/705,777

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Title: SYSTEM AND METHOD FOR RACK MOUNT SYSTEM MID-PLANE INTERCONNECT USING SWITCHED TECHNOLOGY

Assignee: Intel Corporation

## IN THE CLAIMS

Please amend the claims as follows:

- 1-31. (Cancelled)
- 32. (Currently amended) A system to obtain a fixed impedance in a differential copper pair, comprising:
  - a first copper conductor extended along an axis;
- a second copper conductor <u>positioned substantially parallel along the axis</u>, wherein the <u>second copper conductor</u> is spaced approximately 5 millimeters from the first copper conductor; and

an insulating casing encompassing the first copper conductor and the second copper conductor, wherein the insulating casing includes two substantially parallel side-ground-planes and two substantially parallel vertical-ground-planes, wherein the two side-ground-planes are each at least 0.015 inches thick and the two vertical-ground-planes are each at least 0.007 inches thick, the side-ground-planes and the vertical-ground-planes respectfully connect to encompass the first and second copper conductors, each of the side-ground-planes includes a pair of vias for connecting the two vertical-ground-planes, wherein the vias in each pair of vias are less than 0.1 inches apart.

- 33. (Cancel) The system of claim 32, wherein the second copper conductor is spaced 5 millimeters away from the first copper conductor.
- 34. (Cancel) The system of claim 32, wherein the first copper conductor is parallel to the second copper conductor.
- 35. (Cancel) The insulating casing of claim 32, wherein the insulating casing includes two side-ground-planes used for grounding.

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36. (Cancel) The insulating easing of claim 35, wherein the two side-ground-planes are at least 0.015 inches thick.

- 37. (Currently amended) The insulating casing of claim 35 32, wherein an inner surface of a first one of the two side-ground-planes is located to the left of the first copper conductor and the second copper conductor.
- 38. (Currently amended) The insulating casing of claim 35 32, wherein an inner surface of a second one of the two side-ground-planes is located to the right of the second copper conductor and the first copper conductor.
- 39. (Cancel) The insulating casing of claim 32, further comprising two vertical-groundplanes used for grounding.
- 40. (Cancel) The insulating casing of claim 39, wherein the two vertical-ground planes are at least 0.007 inches thick.
- 41. (Currently amended) The insulating casing of claim 39 32, wherein a first one of the two vertical-ground-planes attaches perpendicularly to two side-ground-planes.
- 42. (Currently amended) The insulating casing of claim 39 32, wherein the a first one of the two vertical-ground-planes is located above the first copper conductor and the second copper conductor.
- 43. (Currently amended) The insulating casing of claim 39 32, wherein a second one of the two vertical-ground-planes attaches perpendicularly to two side-ground-planes.
- 44. (Currently amended) The insulating casing of claim 39 32 [[.]], wherein the a second one of the two vertical-ground-planes is located below the first copper conductor and the second copper conductor.

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45. (Cancel) The insulating casing of claim 35, further comprising two pairs of vias wherein each of the two side-ground-planes includes one of the two pairs of vias.

- 46. (Cancel) The insulating casing of claim 45, wherein each of the vias in the one of the two pairs of vias are less than 0.1 inches apart.
- 47. (Currently amended) The insulating casing of claim 35 32, wherein at least one of the two side-ground-planes is parallel to at least one of the first copper conductor and the second copper conductor.